

# Converting Colors

CIELCh(57, 4.122, 202.811)

Have a look what the booklet for  
CIELCh(57, 4.122, 202.811) contains.

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# Color

**CIELCh(57, 4.221, 199.086)**

# Conversions

## Conversions Part 1

Format	Color
Hex	808B8B
RGB	128, 139, 139
RGB Percent	50%, 55%, 55%
CMY	0.4980, 0.4548, 0.4549
CMYK	0.08, 0.00, 0.00, 0.45
HSL	180°, 5%, 52%
HSV	180°, 8%, 55%
XYZ	22.7987, 24.9227, 28.0391
YIQ	135.7110, -6.5560, -2.3320

# Conversions

## Conversions Part 2

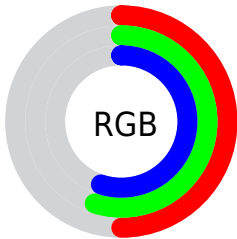
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 134, 139
Decimal	8424331
CIE Lab	57.00, -3.99, -1.38
CIE LCh	57, 4.221, 199.086
Yxy	24.9227, 0.3009, 0.3290
Android (android.graphics.Color)	4286614411 (0xFF808B8B)
YUV	135.7110, 1.6215, -6.7625
Hunter-Lab	49.9226, -5.8470, 1.6455

# Details

The CIELCh color  $57, 4.221, 199.086$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $55, 4.430, 19.773$ , and the grayscale version is  $57, 0.007, 296.813$ .

A 20% lighter version of the original color is  $77, 3.996, 199.226$ , and  $37, 4.125, 198.918$  is the 20% darker color. If you saturate the color by 10%, you get  $56, 9.306, 198.514$ , and if you desaturate by 10%, it is  $58, 1.137, 19.132$ .

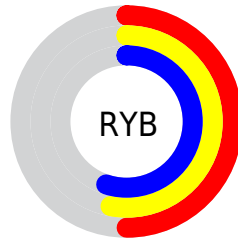
# Distribution



Red (50%)

Green (55%)

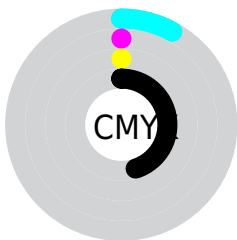
Blue (55%)



Red (50%)

Yellow (53%)

Blue (55%)

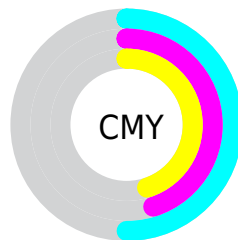


Cyan (8%)

Magenta (0%)

Yellow (0%)

Black (45%)



Cyan (50%)

Magenta (45%)

Yellow (45%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 57, 4.221, 199.086 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 57, 4.221, 199.086 by changing the saturation by 10% instead.



■ 57, 4.221, 199.086

■ 57, 4.221, 199.086

■ 100, 4.221,  
199.086

■ 47, 4.221, 199.086

■ 77, 4.221, 199.086

■ 37, 4.221, 199.086

■ 87, 4.221, 199.086

■ 27, 4.221, 199.086

■ 97, 4.221, 199.086

■ 17, 4.221, 199.086

■ 7, 4.221, 199.086

■ 0, 4.221, 199.086

■ 57, 4.221, 199.086

■ 57, 4.221, 199.086

■ 56, 9.306, 198.514

■ 58, 1.137, 19.132

■ 55, 14.037,

■ 59, 6.700, 20.002

198.041

61, 12.402, 20.614

54, 18.331,  
197.625

62, 18.192, 21.221

54, 22.109,  
197.266

64, 24.028, 21.832

53, 25.302,  
196.967

65, 29.876, 22.443

53, 27.862,  
196.730

69, 41.509, 23.654

53, 29.765,  
196.556

70, 47.262, 24.248

52, 31.028,  
196.440

52, 31.775,  
196.370

# Harmonies

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



57, 4.221, 199.086



55, 4.430, 19.773

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



57, 4.221, 199.086



57, 4.221, 249.086



57, 4.221, 19.086



57, 4.221, 69.086

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



57, 4.222, 199.069



73, 1.340, 199.661



57, 7.630, 143.590



39, 0.768, 199.695



88, 0.010, 296.813



39, 0.006, 296.813



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



57, 4.222, 199.069



72, 5.938, 198.989



56, 3.716, 254.635



29, 2.978, 198.992



50, 30.843, 196.357



1, 1.414, 199.405





# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



55, 4.430, 19.773



69, 6.280, 19.872



56, 3.786, 72.602



27, 3.148, 19.868



27, 63.123, 38.651



0, 1.414, 19.388



# Previews

## White Background



This preview shows how the CIELCh color 57, 4.221, 199.086 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 57, 4.221, 199.086 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

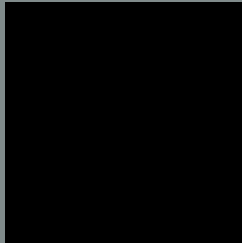
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

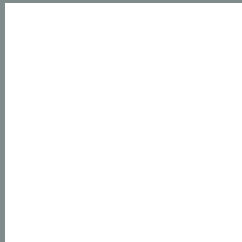
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 57, 4.221, 199.086**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 57, 4.221, 199.086.



This preview shows how white text looks on a background with the CIELCh color 57, 4.221, 199.086.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

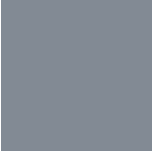
57, 4.221, 199.086

### Protanopia

57, 1.319, 353.611

### Deuteranopia

57, 7.804, 344.494



**Tritanopia**  
57, 6.383, 262.838



# Trichromacy



## Original Color

57, 4.221, 199.086

## Protanomaly

57, 0.961, 236.252

## Deuteranomaly

57, 3.717, 329.577

## Tritanomaly

57, 5.186, 249.730

# Monochromacy



## Original Color

57, 4.221, 199.086

## Achromatopsia

57, 0.007, 296.813

## Achromatomaly

57, 1.556, 199.517

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 57, 4.221, 199.086 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(128, 139, 139)` looks like.

```
.text, #text, p{  
    color:rgb(128, 139, 139)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(128, 139, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 139, 139) }
```

## Border

The CSS property to change the border of an element to CIELCh 57, 4.221, 199.086 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(128, 139, 139) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(128, 139, 139) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(128, 139, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 139, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 139, 139);  
box-shadow:4px 4px 4px 4px rgb(128, 139,  
139) }
```

# Background

The CSS property to change the background color of an element to CIELCh 57, 4.221, 199.086 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 139, 139) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(128,  
139, 139) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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